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6 BEFORE THE STATE OF WASHINGTON
7 ENERGY FACILITY SITE EVALUATION COUNCIL

8 In the Matter of)
9 Application No. 99-1) EXHIBIT _____ (PS-T)
10 SUMAS ENERGY 2, INC.)
11 SUMAS ENERGY 2 GENERATION)
12 FACILITY)
_____)

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14 WHATCOM COUNTY'S PREFILED TESTIMONY
15 WITNESS # _____ : PETUR SIM

16 Q: Please introduce yourself to the Council.

17 A: I am Petur Sim. I am employed as a Land Use Specialist/Compliance Officer with Whatcom
18 County's Land Use Division. Amongst my many duties, I investigate complaints related to
19 the County's land use ordinances, to include violations of the County's noise regulations. In
the performance of my duties relating to noise complaint investigations, I am tasked with
collecting on site sound level measurements for such enforcement actions. I have been so
employed for the past two years.

20 Q: What are the subjects of your testimony?

21 A: I will present the results of sound level measurements which I took during June, 2000, in the
vicinity of the site of the proposed SE2 plant.

22 Q: What instrument did you use to take the sound level measurements?

23 A: I used a Bruel & Kjaer Sound Level Meter (hereafter "SLM"), Type 2236 B-007, Type I.

24 Q: Are you familiar with this instrument?

25 A: Yes, I use it frequently in my work as a County's land use compliance officer.

1 Q: From what locations did you obtain the sound level readings?

2 A: The measurement locations, which are identified on the map attached hereto as Exhibit: PS-
3 13, shall be referred to as the Jager Residence, Jager Farm and Jager Pasture.

4 Jager Residence:

5 The Jager Residence was also used as a SLM location in the 1998 sound level study.
6 As indicated in the 1998 study, the property is located approximately 90 feet higher
and 1,600 feet directly north of proposed project. The SLM was set up in the
backyard near the bank.

7 Jager Farm:

8 The Jager Farm is located about 1,200 feet southwest of the proposed project site.
9 The SLM was set up 15 feet south of the Halverstick Road, directly north of the
farmhouse.

10 Jager Pasture:

11 The Jager Pasture is located about 1,200 feet southwest of the proposed facility.
12 The SLM was set up approximately 400 feet southeast of the farmhouse and 400
feet south of Halverstick Road.

13 Q: When were the measurements taken?

14 A: I took two sets of measurements. The first set was between the dates of June 12, 2000 and
15 June 21, 2000. This set of data include twenty-four hours of C-weighted measurements and
16 twenty-four hours of A-weighted measurements at each of the above described locations
(with the exception of two periods that were only 16 hours in duration). The second set of
data I collected was focused to establish the difference, if any, between indoor versus outdoor
sound levels in residences which had either open or closed windows. The second set of data
include both A and C-weighted measurements.

17 Q: Why did you take both A and C-weighted measurements?

18 A: In contrast to the A-weighted measurements, upon which our noise enforcement ordinances
are based, the C-weighted scale focuses upon the lower frequency sounds.

19 Q: How did you set up the Sound Level Meter?

20 A: Prior to each measurement, the SLM was calibrated and battery levels checked. An outdoor
21 microphone kit was utilized in order to protect against weather conditions, which varied over
the two-week duration. The outdoor microphone kit included a windscreen, which reduces
22 wind noise and a rain cover, which protects the microphone from moisture. The outdoor
microphone was attached to a tripod and positioned about five feet from the ground.

23 Q: What were the results of your 24 hour duration measurements?

24 A: The results of my 24 hour duration measurements are shown in Exhibits PS-1a & 1b through
25 PS-8a & 8b.

1 Q: Please explain the format of these exhibits for the Council.

2 A: Each Exhibit is comprised of a face sheet and a data sheet. The face sheet shows the type of
3 SLM used; the start and finish time for the measurements; the "log rate," which shows how
4 often instrument takes a measurement; the "range," indicates the spread of sound levels to
5 which the instrument will accurately respond, expressed in decibels; and the RMS refers to
6 the speed with which the instrument picks up and responds to the noise being monitored and
7 the weighting observed. Turning to the data sheet itself, one can find, in addition to the
8 starting time for the measurement, the measurement time duration, and most importantly, the
9 average decibel reading for that measurement period, expressed either in A-weighting
10 ("LAeq [dB]") or C-weighting ("LCeq [dB]"). It should also be noted that in all of the 24
11 hour A-weighted measurements, the table breaks down the overall average levels into more
12 discrete categories which reflect that percentage of the hour during which the sound level
observed exceeded the stated decibel level. Finally, both the face and data sheets show the
location at which the measurement was taken.

13 Q: What were the results of your indoor/outdoor comparison measurements?

14 A: As I mentioned, in addition to the twenty-four hour measurements, a series of ten-minute
15 measurements were taken at the Jager Residence and the Jager Farmhouse on June 21, 2000.
Indoor and outdoor readings were taken using A and C weightings, the results are shown in
Exhibits PS-9a & 9b through 12a & 12b.

16 Q: How does the presentation of this data differ from the 24 hour data sheets?

17 A: The presentation of the information is essentially the same as described above, however, as
18 one will note, each data sheet is broken down into three separate tables reflecting whether the
19 measurement was taken inside or outside the structure and if inside, whether the windows
20 were opened or closed.

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END OF TESTIMONY

I declare under penalty of perjury that the above testimony is true and correct to the best of
my knowledge.

Executed at Bellingham, Washington, on this 23rd day of June, 2000.

By: _____
Petur Sim